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# HANGING CYLINDRICAL PART STRUCTURE FOR OSCILLATING ENGINE OF SUSPENSION CYLINDER

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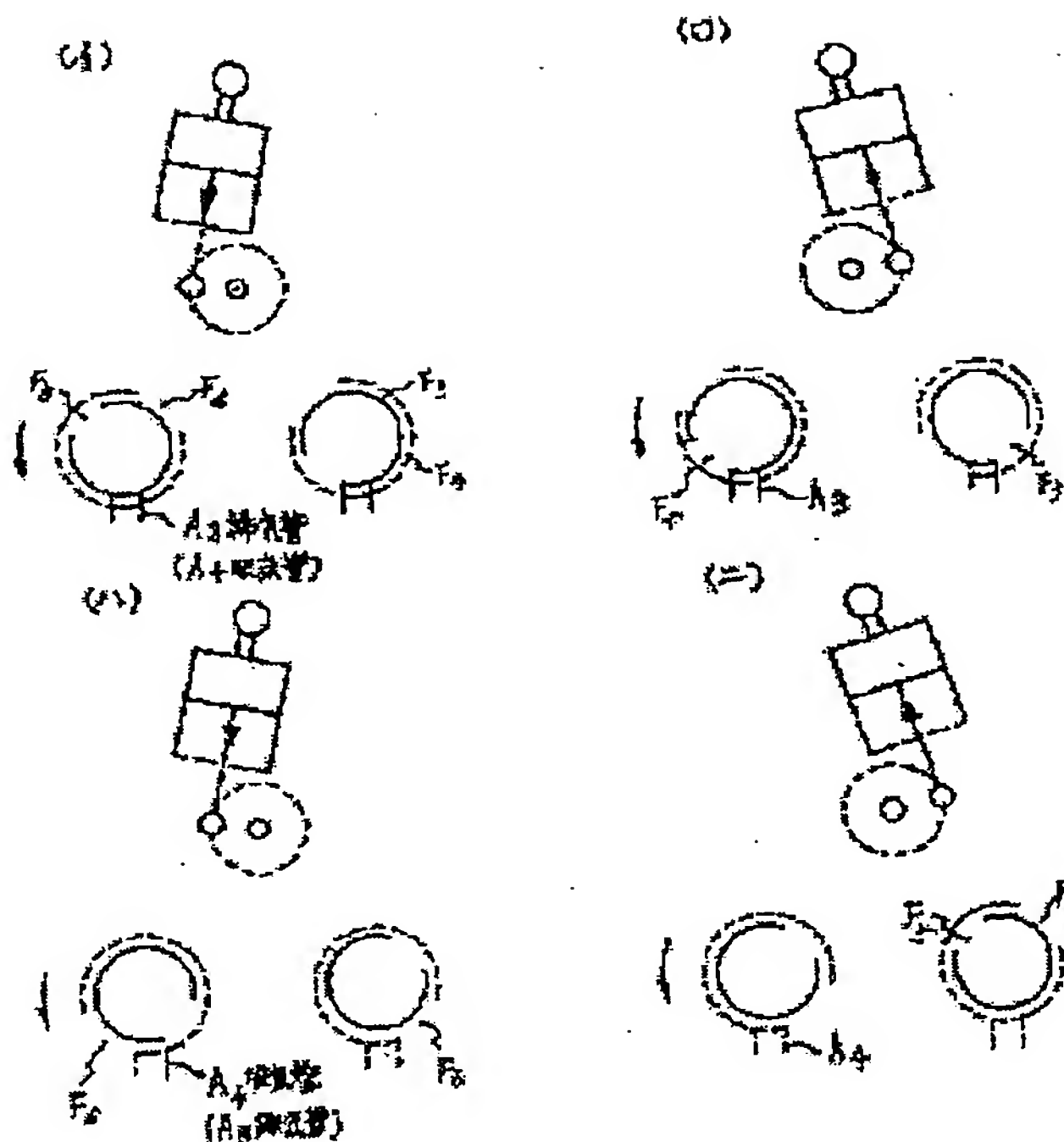
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## Abstract of JP11022401

**PROBLEM TO BE SOLVED:** To prevent rising of temperature of a hanging cylindrical part itself, suction of a large quantity of exhaust gas remaining in a rotational control valve in a cylinder at one time in an air intake stroke of an engine and exhaustion of a large quantity of combustible intake gas remaining in the rotational control valve outside at one time in an exhaust stroke.

**SOLUTION:** A rotational control valve divided into an exhaust chamber F3 and an intake chamber F4 by a bulkhead and rotated by a shaft is rotationally fit in an inside pipe of a hanging cylindrical part constituted in inside and outside double pipe structure. Thereafter, the rotational control valve F provided with an intake port-intake support port F6 on an outer periphery of the intake chamber F4, etc., by retreating them rather than an exhaust port-exhaust support port F5 on an outer periphery of the exhaust chamber F3, etc., respectively by 1/4 of the circumference in their rotational direction is devised to carry out intake and exhaust to and from a cylinder by rotating by 1/4 of the circumference for each stroke of an engine.



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